47th World Congress on Microbiology

September 10-11, 2018 | London, UK

Histological analisis of tomato roods and arbuscular mycorhices interaction

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Mycorhices colaborate with plan roots in many ways. But even today not all mechanism of these comunication are well undestanded. We have try to analyce at histopatological level one of these signal, those of disease mutual protection. For signal optimization, we design a matrix of plant distribution that help transmission of protective alert signal, including control plants physically separated. All of them are cultured in orchard or isolate plot both in "ecological culture" conditions. This work try to show how structure of the tomato plants roots change, when are conected to arbuscular mycorhices web. The root stainning technique is neccesary in the work with arbuscular mycorrhizal fungi (AMF). Root branching is one of the most important factorscontributing to the creation of a complex root architecture and change if tomato plants are in direct contact with fungal hyphae or not. Although lateral root initiation occurs at some distance from the primary root apicalmeristem, it has recently been hypothesized that xylem pole pericycle (XPP) cells become primed in the basal meristem, a zone neighboring the root apical meristem. In adition we show distribution of specific miRNA in both tissues plant roots and fungal hypae.

Biography

Joanne Alava has completed his profesional degres at the age of 23 years, in Anatomic Pathology and Laboratory Technician in microbiology and clinical analisys. She has done specialization courses in Foresic Criminology and Cell Culture. Now is doing her postgraduate stage in BCC.

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